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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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Office Action Summary

Application No.

10/646,749

Applicant(s)

KWAK, CHANG-MIN

Examiner

Alexander Q. Huerta

Art Unit

4115

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 25 August 2003.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1-17 is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 25 August 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☐ Information Disclosure Statement(s) (PTO-8508)
Paper No(s)/Mail Date _____
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1,4,6,8-11 are rejected under 35 U.S.C. 102(e) as being anticipated by Gatto et al. (United States Patent Application Publication 2003/0037335), herein referenced as Gatto.

Regarding **claim1**, Gatto discloses interactive television devices and systems. In addition, Gatto discloses that each user of the interactive TV device may be identified within the device by a unique user identification number (User ID). This user ID may be exclusively internal to the interactive TV device and may not be known to the user. According to an embodiment of the present invention, users may access their profile or profiles and/or login to the present interactive TV device by selecting their picture (1042), (1044), (1046), (1048) or (1050) (alternatively, some other personalized graphic) from among the pictures of other users of the device, as shown in FIG. 12. Each of the user logos is associated with a unique user ID. Each user may be represented within the device by a distinctive logo (their picture, for example), in the same manner as a TV channel is represented by its own distinctive logo, which reads on claimed recording

images in a storing unit of a digital video device as an identifier", as disclosed in paragraph [0072] and further exhibited in figure 10. In addition, Gatto further discloses that according to an embodiment of the present invention, a user profile may be defined by and/or include one or more of the following: d) The number of channels defined for this user (from 1 to 979 channels from among the 64K possible channels, for example-- although 64K channels is merely an exemplary and non-limiting number of possible channels); e) The channel table, which includes the list of channels assigned to this user, together with its associated logo (note that two or more users may access to the same channel through different logos), which reads on claimed "managing channels of the digital video device on the basis of the recorded image identifier", as disclosed in paragraphs [0076] and [0077].

Regarding **claim 4**, Gatto discloses that users may access their profile or profiles and/or login to the present interactive TV device by selecting their picture (1042), (1044), (1046), (1048) or (1050) (alternatively, some other personalized graphic) from among the pictures of other users of the device, as shown in FIG. 12, which reads on claimed "displaying images on a screen of a digital video device; and registering an image selected by a user among the displayed images as an identifier", as disclosed in paragraph [0072] and further exhibited in figure 10.

Regarding **claim 6**, Gatto in view of Aratani disclose everything as claimed above (see claim 4). In addition, Gatto discloses that each of the user logos is associated with a unique user ID. Each user may be represented within the device by a distinctive logo (their picture, for example), in the same manner as a TV channel is

represented by its own distinctive logo. According to an embodiment of the present invention, a user profile may be defined by and/or include one or more of the following:

e) The channel table, which includes the list of channels assigned to this user, together with its associated logo (note that two or more users may access to the same channel through different logos), which reads on claimed "registering the identifier and then displaying a list for selecting preference channels on the screen; and registering preference channels selected by a user corresponding to the image identifier", as disclosed in paragraphs [0072] and [0077].

Regarding **claim 8**, Gatto discloses everything as claimed above (see claim 4). In addition, Gatto discloses that each of the user logos is associated with a unique user ID. Each user may be represented within the device by a distinctive logo (their picture, for example), in the same manner as a TV channel is represented by its own distinctive logo. According to an embodiment of the present invention, a user profile may be defined by and/or include one or more of the following: a) A user ID number, which may be assigned sequentially (for example, a 16-bit user ID number may provide for up to 64K users, although the present invention is not limited to 64K users); b) The user's logo, consisting of the user's photograph or other distinguishing graphic. This represents the link between the user and his or her profile, which reads on claimed "registering the image as a first identifier and then registering characters as a second identifier", as disclosed in paragraphs [0072], [0073], and [0074].

Regarding **claim 9**, Gatto discloses everything as claimed above (see claim 4). In addition, Gatto discloses that the user profile may include one or more of the

following: a unique user identification number; a user logo, the user logo including an image of the user; an identification of a last channel selected by the user; a number of channels defined for the user; a channel table, the channel table including a list of channels assigned to the user. Gatto further discloses parents (1042) and/or (1044) may lock out certain features of the device to their children 1048, 1050 (such as the videoconferencing feature, for example) and/or lock out certain channels, which reads on claimed "wherein the identifier is images for managing channels of the digital video device and endowing a watching right of specific channels", as disclosed in paragraphs [0015] and [0058], respectively.

Regarding **claim 10**, Gatto discloses everything as claimed above (see claim 4). In addition, Gatto discloses that each such user may log onto the present interactive TV device and individually define the configuration for the present interactive TV device (although choices may be deliberately restricted for some users, such as minors). This enables each user to personalize the device to their own liking and to enable parents to control the actions that their children (such as represented by logos 1048 and 1050) may take. For example, parents (1042) and/or (1044) may lock out certain features of the device to their children (1048), (1050) (such as the videoconferencing feature, for example) and/or lock out certain channels, which reads on claimed "wherein the identifier is images for distinguishing family members", as disclosed in paragraph [0058] and further exhibited in figure 10.

Regarding **claim 11**, Gatto discloses everything as claimed above (see claim 4). In addition, Gatto discloses that each such user may log onto the present interactive TV

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device and individually define the configuration for the present interactive TV device (although choices may be deliberately restricted for some users, such as minors). This enables each user to personalize the device to their own liking and to enable parents to control the actions that their children (such as represented by logos 1048 and 1050) may take. For example, parents (1042) and/or (1044) may lock out certain features of the device to their children (1048), (1050) (such as the videoconferencing feature, for example) and/or lock out certain channels, which reads on claimed "wherein the identifier is photo images of family members", as disclosed in paragraph [0058] and further exhibited in figure 10.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gatto in view of Hill et al. (United States Patent Application Publication 2002/0070982), herein referenced as Hill.

Regarding **claim 2**, Gatto discloses everything as claimed above (see claim 1). However, Gatto fails to disclose "recording characters in the storing unit of the digital video device as an identifier", however the examiner maintains that it was well known in

the art to provide recording characters in the storing unit of the digital video device as an identifier, as taught by Hill.

In a similar field of endeavor, Hill discloses a method and system for presenting digital media. In addition, Hill discloses that the user is provided the opportunity to input textual information, whether descriptions of individual photographs and albums, or text for photo storybooks, or user profile information, etc. In the case of the user of a personal computer, such textual information is readily input via the computer keyboard. However, the set-top box equipped television user typically has only conventional television controls lacking text input keys. Hill further discloses that FIG. 15 depicts a keyboard-text display (380) that is provided to the user when text entry is required (or desired). The keyboard-text display (380) includes a category region (382) identifying the type of textual information to be input. In the example shown, the user is prompted for a name, such as when providing textual information during user information operations (346) in the user profile menu (286) (see FIG. 13), which reads on claimed "recording characters in the storing unit of the digital video device as an identifier", as disclosed in paragraphs [0046] and [0047].

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Gatto by specifically providing the recording of characters in the storing unit of the digital video device as an identifier, as taught by Hill, for the purpose of providing a name for user profile.

Regarding **claim 3**, Gatto in view of Hill disclose everything as claimed above (see claim 2). In addition, Gatto discloses a) a user ID number, which may be assigned

sequentially (for example, a 16-bit user ID number may provide for up to 64K users, although the present invention is not limited to 64K users); b) The user's logo, consisting of the user's photograph or other distinguishing graphic. This represents the link between the user and his or her profile; d) The number of channels defined for this user (from 1 to 979 channels from among the 64K possible channels, for example--although 64K channels is merely an exemplary and non-limiting number of possible channels); e) The channel table, which includes the list of channels assigned to this user, together with its associated logo (note that two or more users may access to the same channel through different logos), which reads on claimed "registering preference channels selected by a user to a list for inputting channels corresponding to the image identifier and the characters identifier", as disclosed in paragraphs [0073], [0074], [0076], and [0077] respectively.

Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gatto in view of Aratani et al. (United States Patent Application Publication 2002/0019982), herein referenced as Aratani.

Regarding **claim 5**, Gatto discloses everything as claimed above (see claim 4). However, Gatto fails to disclose "connecting a memory card where photo images are recorded to the digital video device; and displaying images recorded in the memory card on the screen of the digital video device", however the examiner maintains that it was well known in the art to provide connecting a memory card where photo images are

recorded to the digital video device; and displaying images recorded in the memory card on the screen of the digital video device, as taught by Aratani.

In a similar field of endeavor, Aratani discloses a data processing apparatus, data processing system, television signal receiving apparatus, and printing apparatus. In addition, Aratani discloses that the digital TV broadcast receiving apparatus (100) includes the extended card slot (124) and the digital photograph application, as described above, and can display, on the image display unit (112), an image captured by a digital camera. Static images (JPEG format) and moving images (MPEG format) obtained by a digital camera are recorded on a memory card that is inserted into the extended card slot (124), and a non-reservation action list compatible with the memory card is also recorded, which reads on claimed "connecting a memory card where photo images are recorded to the digital video device; and displaying images recorded in the memory card on the screen of the digital video device", as disclosed in paragraphs [0117] and [0118].

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Gatto by specifically providing connecting a memory card where photo images are recorded to the digital video device; and displaying images recorded in the memory card on the screen of the digital video device, as taught by Aratani, for the purpose of allowing the user to view still photographs on their TV in a high definition format.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gatto in view of Yamamoto et al. (United States Patent Application Publication 2002/0178449), herein referenced as Yamamoto.

Regarding **claim 7**, Gatto discloses everything as claimed above (see claim 6). However, Gatto fails to disclose "wherein the list for selecting preference channels is displayed on the screen as an 'On Screen Display' form", however the examiner maintains that it was well known in the art to provide the list for selecting preference channels is displayed on the screen as an 'On Screen Display' form, as taught by Yamamoto.

In a similar field of endeavor, Yamamoto discloses a receiver. In addition, Yamamoto discloses that there is provided a function (one of OSD (On Screen Display) functions) of registering onto and deleting from the channel map by the unit of a physical channel. When the above OSD function is utilized, it is possible for a user to register only his favorite channels on the channel map and tune in to only his favorite channels by using the channel-up/channel-down function, which reads on claimed "wherein the list for selecting preference channels is displayed on the screen as an 'On Screen Display' form", as disclosed in paragraph [0006].

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Gatto by specifically providing wherein the list for selecting preference channels is displayed on the screen as an 'On Screen Display' form, as taught by Yamamoto, for the purpose of overlaying the channel map so that the user can view all channels that they wish to add to their favorites.

Claims 12,14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gatto in view of Aratani and in further view of Wugofski (United States Patent Application 2002/0108110), herein referenced as Wugofski.

Regarding **claim 12**, Gatto discloses that users may access their profile or profiles and/or login to the present interactive TV device by selecting their picture (1042), (1044), (1046), (1048) or (1050) (alternatively, some other personalized graphic) from among the pictures of other users of the device, as shown in FIG. 12, which reads on claimed "registering an image selected by a user among the displayed images as an identifier", as disclosed in paragraph [0072] and further exhibited in figure 10. However, Gatto fails to disclose "connecting a memory card where photo images are recorded to a digital video device; displaying images recorded in the memory card on a screen of the digital video device; displaying the image identifier and a channel input item corresponding to the image identifier on the screen; and registering inputted preference channels when a user's preference channels are inputted to the channel input item", however the examiner maintains that it was well known in the art to provide connecting a memory card where photo images are recorded to a digital video device; displaying images recorded in the memory card on a screen of the digital video device; displaying the image identifier and a channel input item corresponding to the image identifier on the screen; and registering inputted preference channels when a user's preference channels are inputted to the channel input item, as taught by Aratani and Wugofski respectively.

Regarding connecting a memory card where photo images are recorded to a digital video device; displaying images recorded in the memory card on a screen of the digital video device, Aratani discloses that the digital TV broadcast receiving apparatus (100) includes the extended card slot (124) and the digital photograph application, as described above, and can display, on the image display unit (112), an image captured by a digital camera. Static images (JPEG format) and moving images (MPEG format) obtained by a digital camera are recorded on a memory card that is inserted into the extended card slot (124), and a non-reservation action list compatible with the memory card is also recorded, which reads on claimed "connecting a memory card where photo images are recorded to a digital video device; displaying images recorded in the memory card on a screen of the digital video device", as disclosed in paragraphs [0117] and [0118].

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Gatto by specifically providing connecting a memory card where photo images are recorded to a digital video device; displaying images recorded in the memory card on a screen of the digital video device, as taught by Aratani, for the purpose of allowing the user to view still photographs on their TV in a high definition format.

In a similar field of endeavor, Wugofski discloses a system for using a channel and event overlay for invoking channel and event related functions. In addition, Wugofski discloses that in FIG. 5 another schematic example of screen (50) and an example of the operation of system (30). In the example, a viewer has selected favorite

list field (68) with a pointing device in the remote control (24). The selected field (68) includes several menu-type items (69), including a list of the channels (69a) which correspond with the currently active favorite list, an edit list (69b) which enables a user to add or delete channels from the currently active favorite list, a select list (69c) which enables the user to change the currently active favorite list to another active list, and a new list (69d) which enables the user to create a list in addition to the existing active lists. In addition, one of ordinary skill in the art would recognize that the username (in this case "Jenny") would be serve as an image identifier to distinguish between different user profiles, which therefore reads on claimed "displaying the image identifier and a channel input item corresponding to the image identifier on the screen; and registering inputted preference channels when a user's preference channels are inputted to the channel input item", as disclosed in paragraph [0033] and further exhibited in figure 5.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Gatto by specifically providing displaying the image identifier and a channel input item corresponding to the image identifier on the screen; and registering inputted preference channels when a user's preference channels are inputted to the channel input item, as taught by Wugofski, for the purpose of allowing multiple user's to establish their own favorite channels listing.

Regarding **claim 14**, Gatto in view of Aratani and in further view of Wugofski disclose everything as claimed above (see claim 12). In addition, Gatto discloses that each of the user logos is associated with a unique user ID. Each user may be represented within the device by a distinctive logo (their picture, for example), in the

same manner as a TV channel is represented by its own distinctive logo. According to an embodiment of the present invention, a user profile may be defined by and/or include one or more of the following: a) A user ID number, which may be assigned sequentially (for example, a 16-bit user ID number may provide for up to 64K users, although the present invention is not limited to 64K users); b) The user's logo, consisting of the user's photograph or other distinguishing graphic. This represents the link between the user and his or her profile, which reads on claimed "registering the image identifier and additionally registering a character identifier", as disclosed in paragraphs [0072], [0073], and [0074].

Regarding **claim 15**, Gatto in view of Aratani and in further view of Wugofski disclose everything as claimed above (see claim 12). In addition, Gatto discloses that the user profile may include one or more of the following: a unique user identification number; a user logo, the user logo including an image of the user; an identification of a last channel selected by the user; a number of channels defined for the user; a channel table, the channel table including a list of channels assigned to the user. Gatto further discloses parents (1042) and/or (1044) may lock out certain features of the device to their children 1048, 1050 (such as the videoconferencing feature, for example) and/or lock out certain channels, which reads on claimed "wherein the identifier is images for managing channels of the digital video device and endowing a watching right of specific channels", as disclosed in paragraphs [0015] and [0058].

Regarding **claim 16**, Gatto in view of Aratani and in further view of Wugofski disclose everything as claimed above (see claim 12). In addition, Gatto discloses that

each such user may log onto the present interactive TV device and individually define the configuration for the present interactive TV device (although choices may be deliberately restricted for some users, such as minors). This enables each user to personalize the device to their own liking and to enable parents to control the actions that their children (such as represented by logos 1048 and 1050) may take. For example, parents (1042) and/or (1044) may lock out certain features of the device to their children (1048), (1050) (such as the videoconferencing feature, for example) and/or lock out certain channels, which reads on claimed "wherein the images for distinguishing family members", as disclosed in paragraph [0058] and further exhibited in figure 10.

Regarding **claim 17**, Gatto in view of Aratani and in further view of Wugofski disclose everything as claimed above (see claim 12). In addition Gatto discloses that each such user may log onto the present interactive TV device and individually define the configuration for the present interactive TV device (although choices may be deliberately restricted for some users, such as minors). This enables each user to personalize the device to their own liking and to enable parents to control the actions that their children (such as represented by logos 1048 and 1050) may take. For example, parents (1042) and/or (1044) may lock out certain features of the device to their children (1048), (1050) (such as the videoconferencing feature, for example) and/or lock out certain channels, which reads on claimed " wherein the identifier is photo images of family members", as disclosed in paragraph [0058] and further exhibited in figure 10.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Gatto in view of Wugofski.

Regarding **claim 13**, Gatto in view of Aratani and in further view of Wugofski disclose everything as claimed above (see claim 12). In addition Gatto discloses that the input may be configured to accept an input stream selected from an analog video source, a digital video source, an IP connection, a video stream from a data carrier, a video stream from a video camera, an IR connection, a wireless connection, a Universal Serial Bus (USB)--compatible port and/or the output of the interactive TV device, for example, which reads on claimed "displaying channels corresponding to an analogue TV broadcasting, a digital TV broadcasting, and a cable TV broadcasting on the screen as an "On Screen Display" form", as disclosed in paragraph [0008]. However, Gatto fails to disclose "registering preference channels selected by the user to the channel input item if the user selects preference channels among the channels", however the examiner maintains that it was well known in the art to provide registering preference channels selected by the user to the channel input item if the user selects preference channels among the channels, as taught by Wugofski.

Regarding registering preference channels selected by the user to the channel input item if the user selects preference channels among the channels, Wugofski discloses that in FIG. 5 another schematic example of screen (50) and an example of the operation of system (30). In the example, a viewer has selected favorite list field (68) with a pointing device in the remote control (24). The selected field (68) includes several

menu-type items (69), including a list of the channels (69a) which correspond with the currently active favorite list, an edit list (69b) which enables a user to add or delete channels from the currently active favorite list, a select list (69c) which enables the user to change the currently active favorite list to another active list, and a new list (69d) which enables the user to create a list in addition to the existing active lists, which reads on claimed "registering preference channels selected by the user to the channel input item if the user selects preference channels among the channels", as disclosed in paragraph [0033].

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Gatto by specifically providing registering preference channels selected by the user to the channel input item if the user selects preference channels among the channels, as taught by Wugofski, for the purpose of enabling the user to establish their own favorite channel listing.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander Q. Huerta whose telephone number is 571-270-3582. The examiner can normally be reached on M-F(Alternate Fridays Off) 7:30-5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jefferey Harold can be reached on 571-272-7519. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Alexander Q Huerta
Examiner
Art Unit 4115

November 8, 2007

/Jeffery F Harold/

Supervisory Patent Examiner, Art Unit 4115